

CLAIMS

- 50(3) 1. A hemodialysis port comprising:
2 a housing defining a plurality of interconnected chambers, each said chamber having a
3 bottom portion and sidewall portions;
4 a septum attached to said side wall portions of each said chamber enclosing said
5 chamber; and
6 a spring mechanism disposed between said sidewalls and said septum and applying an
7 inward force on said septum.
8
- 2. A port as claimed in claim 1, wherein said septum comprises a material having a
9 durometer between 30 and 55.
10
- 3. A port as claimed in claim 1, wherein said spring mechanism having sufficient force to
11 close an opening in said septum caused by a needle or other medical instrument.
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- 4. A port as claimed in claim 1, said bottom portion further comprising a titanium insert
13 covering at least a portion of said bottom portion of said port.
14
- 5. A port as claimed in claim 1, wherein said housing comprising a flexible material having
15 a flexibility for a particular patient's anatomical structure.
16
- 6. A port as claimed in claim 1, wherein said septum comprising silicon rubber.
17
- 7. A port as claimed in claim 1, wherein said ports are connected together to a manifold to
18 provide a single inlet/outlet to and from said ports.
19
- 8. A method for performing hemodialysis, comprising the steps of:
20 inserting at least one multi-port device under the skin of a patient;
21 inserting a needle and sheath through said skin and into one of said ports of said multi-
22 port device;
23

removing said needle from within said sheath, leaving said sheath in said port; and
inserting a cannula and obturator into said sheath and drawing from said cannula blood
from within said port.

4 9. A method as claimed in claim 8, said method further comprising the step of removing
5 said cannula and obturator and said sheath from said port and said skin.

6 10. A hemodialysis method comprising the steps of:

7 inserting a multi-port device under the skin of a patient;

8 inserting a hollow needle into one of the ports of said multi-port device through the skin

9 of said patient;

10 inserting a guidewire through said needle and into said port;

11 removing said needle from said port and said patient; and

12 inserting an introducer over said guidewire and into said port.